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TITLE: SURFACE TREATMENT APPARATUS

PUBN-DATE: January 27, 1989

INVENTOR-INFORMATION:

NAME

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ASSIGNEE-INFORMATION:

NAME	COUNTRY
IWASAKI ELECTRIC CO LTD	N/A

APPL-NO: JP62180026

APPL-DATE: July 21, 1987

INT-CL (IPC): A61L002/20, A61L002/10

ABSTRACT:

PURPOSE: To increase treatment effect by ~~ultraviolet rays and ozone~~, by making the interior of a main body to an atmosphere having good ultraviolet ray transmissivity and providing an ozone treatment space to the under surface of a plate body and reducing the distance between a light source and a specimen.

CONSTITUTION: For example, reflecting bodies 12 are supported by the inner upper surface of the main body 11 at an interval of about 5cm and an ultraviolet ray generating lamp 13 is mounted in each of the reflecting bodies 12. The main body 11 is evacuated from a nitrogen gas or inert gas supply port 15 also used as a vacuum discharge port or filled with nitrogen gas or inert gas to constitute an atmosphere having good ultraviolet ray transmissivity. Since the illuminance of ultraviolet rays on the surface of a specimen is largely affected by an irradiation distance, the distance between the surface of the specimen and the ultraviolet ray generating lamp 13 is reduced as small as possible in order to increase treatment effect. ~~By this method, the oils and fats, org. solvent, foreign matter, dust and fine powder on the surface of the specimen such as plastic, glass, metal or ceramic can be effectively decomposed and removed by ultraviolet rays and the ozone in the treatment space.~~

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DERWENT-ACC-NO: 1996-508427

DERWENT-WEEK: 199651

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TITLE: Surface treatment device for glass, ceramics and plastic, e.g. sterilisation - including UV generation lamp, UV transmitting plate, ozone processing space and specimen to be treated

PATENT-ASSIGNEE: IWASAKI DENKI KK[IWAS]

PRIORITY-DATA: 1987JP-0180026 (July 21, 1987)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2555614 B2	November 20, 1996	N/A	003	A61L 002/20
JP 01025866 A	January 27, 1989	N/A	000	A61L 002/20

APPLICATION-DATA:

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ABSTRACTED-PUB-NO: JP 2555614B

BASIC-ABSTRACT:

Surface treatment device comprises; ~~UV-generation lamp in side box device, UV transmitting plate positioned where UV lamp acts and in ozone processing space,~~

and specimen to be treated in processing space.

USE - Used for treatment of plastic, glass, metal and ceramic.

ADVANTAGE - Uniform processing of specimen is obtd. and surface is sterilised effectively.

CHOSEN-DRAWING: Dwg.0/4

TITLE-TERMS: SURFACE TREAT DEVICE GLASS CERAMIC PLASTIC
STERILE ULTRAVIOLET

GENERATE LAMP ULTRAVIOLET TRANSMIT PLATE OZONE PROCESS
SPACE

SPECIMEN TREAT

DERWENT-CLASS: A35 L01 L02 M12 P34

CPI-CODES: A10-E11; A11-C04D; A11-C04E; L01-G05; L02-A; M12-A04;

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Polymer Index [1.1]

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